

CLAIMS

1. A guide route search device, characterized by comprising:

5       designating means for designating at least two or more destinations;

      creating means for creating plural route patterns in which orders of visit to the plural destinations are different from one another; and

10       judging means for judging whether the plural route patterns are route patterns that satisfy destination conditions in all the destinations.

2. The guide route search device according to  
15 claim 1, characterized by further comprising selecting means for selecting a guide pattern that satisfies the destination conditions in all the destinations as a guide route.

20       3. The guide route search device according to claim 1, characterized by further comprising:

      adjusting means for performing, for route patterns judged as not satisfying the destination conditions at least at one destination by the judging means,  
25       adjustment of a non-traveling time such that the route patterns satisfy the destination conditions in all the destinations; and

      selecting means for selecting a specific route pattern out of the route patterns judged as satisfying  
30       the destination conditions in all the destinations by

the judging means and the route patterns updated by the adjusting means.

4. The guide route search device according to  
5 claim 1, characterized by further comprising:

updating means for updating, for route patterns  
judged as not satisfying the destination conditions at  
least at one destination by the judging means, the route  
patterns such that the route patterns satisfy the  
10 destination conditions in all the destinations; and

selecting means for selecting a specific route  
pattern out of the route patterns judged as satisfying  
the destination conditions in all the destinations by  
the judging means and the route patterns updated by the  
15 updating means.

5. The guide route search device according to  
claim 1, characterized by further comprising:

updating means for updating, for route patterns  
20 judged as not satisfying the destination conditions at  
least at one destination by the judging means, the route  
patterns such that the route patterns satisfy the  
destination conditions in all the destinations; and

means for displaying at least two route patterns  
25 out of the route patterns judged as satisfying the  
destination conditions in all the destinations by the  
judging means and the route patterns updated by the  
updating means.

30 6. The guide route search device according to

claim 1, characterized by further comprising route pattern editing means for executing, for route patterns in which destinations are judged as satisfying the destination conditions by the judging means, any one of  
5 addition of destinations, deletion of destinations, change of destinations, and rearrangement of destinations as correction of the route patterns and causing the judging means to judge whether destinations in the route patterns after the correction satisfy the  
10 destination conditions.

7. The guide route search device according to claim 2, characterized by further comprising:

display means for superimposing the guide route  
15 selected by the selecting means on a map image together with an image indicating a location of the guide route search device itself before route guide;

moving means for moving the image indicating a location of the guide route search device itself along  
20 the guide route;

time calculating means for calculating an arrival time at a location of the image moved by the moving means; and

updating means for changing a color and/or  
25 brightness of the map image according to the arrival time calculated.

8. The guide route search device according to claim 2, characterized in that the judging means judges  
30 whether route patterns are route patterns that satisfy

the destination conditions in all the destinations on the basis of destination conditions for each genre of the destinations.

5           9. The guide route search device according to claim  
7, characterized in that the judging means includes  
destination condition updating means for updating, when  
the destination for each genre is not in a business hour  
of the destination, updating the destination conditions  
10 for each genre such that the destination conditions for  
each genre are in a business hour of the route point.

10           10. The guide route search device according to  
claim 2, characterized in that the selecting means  
15 judges whether route points of identical or similar  
genres continue in the route pattern and, when  
destinations of identical or similar genres do not  
continue, selects the route pattern as the guide route.

20           11. The guide route search device according to  
claim 6, characterized in that the route pattern editing  
means inserts, in the case in which a new destination is  
inserted in a certain insertion place in route patterns  
in which destinations are judged as satisfying the  
25 destination conditions by the judging means, when it is  
judged by the judging means that destinations in the  
route patterns after correction do not satisfy the  
destination conditions, the new destination in another  
insertion place on the guide route.

12. The guide route search device according to claim 6, characterized in that, the guide route search device inserts, when the route pattern editing means executes addition of a destination, a new destination in  
5 each of plural insertion places, in which a destination can be inserted, on route patterns in which destinations are judged as satisfying the destination conditions by the judging means to create plural route patterns and causes the judging means to judge whether destinations  
10 satisfy the destination conditions for each of the plural route patterns created.

13. A guide route search device, characterized by comprising:  
15 designating means for designating at least two or more destinations;  
creating means for creating plural route patterns in which orders of visiting the plural destinations are different from one another; and  
20 display means for displaying at least two route patterns among the plural route patterns created by the creating means.

14. A guide route search device, characterized by  
25 comprising:

designating means for designating at least two or more destinations;

means for designating a stay time in each of the plural destinations;

30 creating means for creating route patterns

including visiting order information and guide time information of the plural destinations taking into account the stay time designated in each of the destinations; and

- 5        route pattern selecting means for setting one of the route patterns created by the creating means as a guide route.

15        15. The guide route search device according to claim 14, characterized in that

the means for designating a stay time includes means for selecting one stay time data out of plural stay time data at the destination, and

15        the stay time in each of the destinations is taken into account on the basis of the stay time data selected.

16. The guide route search device according to claim 14, characterized in that the means for designating a stay time includes stay time learning  
20        means for setting and/or updating the stay time data for each of the destinations on the basis of an actual stay time at the destination, and

the stay time is taken into account on the basis of the stay time data in each of the destinations.

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17. The guide route search device according to claim 15, characterized in that the stay time selecting means operates to select optimum one stay time data out of plural stay time data provided for each driver, each  
30        male or female, each fellow passenger group, each age,

each season, each day of week, each time frame, or each number of people and/or passenger type of people guided on the guide route.

5           18. A guide route search method, characterized by comprising:

          a step of designating at least two or more destinations;

          a step of creating plural route patterns in which  
10 orders of visiting the plural destinations are different from one another; and

          a step of judging whether the plural route patterns are route patterns that satisfy destination conditions in all the destinations.

15

          19. A guide route search method, characterized by comprising:

          a step of designating at least two or more destinations;

20           a step of creating plural route patterns in which orders of visiting the plural destinations are different from one another; and

          a step of displaying at least two route patterns among the plural route patterns created in the creating  
25 step.

          20. A guide route search method, characterized by comprising:

          a step of designating at least two or more  
30 destinations;

a step of designating a stay time in each of the destinations;

5 a step of creating route patterns including visiting order information and guide time information of the plural destinations taking into account the stay time designated in each of the destinations; and

a step of selecting one of the route patterns created in the creating step as a guide route.

10 21. A computer program for causing a guide route search method to operate, the guide route search method comprising:

a step of designating at least two or more destinations;

15 a step of creating plural route patterns in which orders of visiting the plural destinations are different from one another; and

a step of judging whether the plural route patterns are route patterns that satisfy destination  
20 conditions in all the destinations.

22. A computer program for causing a guide route search method to operate, the guide route search method comprising:

25 a step of designating at least two or more destinations;

a step of creating plural route patterns in which orders of visiting the plural destinations are different from one another; and

30 a step of displaying at least two route patterns



among the plural route patterns created in the creating step.

23. A computer program for causing a guide route  
5 search method to operate, the guide route search method comprising:

a step of designating at least two or more destinations;

10 a step of designating a stay time in each of the destinations;

a step of creating route patterns including visiting order information and guide time information of the plural destinations taking into account the stay time designated in each of the destinations; and

15 a step of selecting one of the route patterns created in the creating step as a guide route.